HW#72: 30-60-90 Triangles

Geometry

Due: Thursday, Jan 28th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

FAILURE TO WRITE IN COMPELTE SENTENCES OR SHOW ALL WORK WILL RESULT IN LASALLE.

For problems 1 – 6, find the value of each variable. Write your answers in simplest radical form.

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| 1) | | 2) |
| 3) Use the figure to the right to complete the table below. | |  |
| 4) The side lengths of a triangle are given. Determine whether it is a *45°-45°-90° triangle,* a *30°-60°-90° triangle,* or *neither.*  a. 5, 10,  b. 6, 6, | | |
| 5) You are using wood to build a pyramid-shaped skateboard ramp. You want each ramp surface to incline at an angle of 30° and the maximum height to be 56 centimeters as shown. | Use the relationships shown in the diagram to determine the approximate lengths of  *a:*  *b:*  *c:*  *d:* | |

Review: The goal of this review is to strengthen our algebra skills that we learned last year so that we can build on those skills this year!

Solving Multi-Step Equations

Directions: Solve for the given variable.

|  |  |
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| 6) | 7) |
| 8) | 9) |